

### AMENDMENTS TO THE CLAIMS

1. (Current amended) A method for processing reservation requests for one or more inventory items, the method comprising:

obtaining, by a computing device, ~~multiple requests~~ a user request for reservation of one or more inventory items;

obtaining, by the computing device, inventory data corresponding to the one or more inventory items and matching the ~~multiple requests~~ user request for reservation with ~~the inventory data~~;

~~generating, on the computing device, three levels of detail organized in a hierarchical relationship for the multiple requests for reservation defined by reservation transaction records, reservation inventory records corresponding to the matching inventory data, wherein the reservation transaction records define a first level of detail associated with the multiple requests for reservation in the hierarchical relationship corresponding to the user request for reservation, wherein one or more reservation items records define a second level of detail in the hierarchical relationship that corresponds to the reservation transaction records and identify a specific inventory item associated with the multiple requests for reservation wherein one or more reservation inventory records define a third level of detail in the hierarchical relationship that corresponds to at least two instances of the specific inventory item and includes specific inventory item data associated with the specific inventory item;~~

obtaining reservation information corresponding to the matched inventory data, wherein the reservation information is organized in accordance with a three-tiered hierarchical relationship defined by:

reservation transaction records including data associated with one or more reservation request;

reservation item records based on reservation transaction records and identifying a set of inventory items associated with the specific inventory request, wherein the reservation item records do not correspond to an instance of an inventory item; and

one or more reservation inventory records based on reservation item records and defining instance data associated with inventory items matched with the one or more reservation requests;  
wherein the reservation information corresponding to the matched inventory data includes:

a reservation transaction record corresponding to user request for reservation;

one or more reservation item records based on the reservation transaction record and the matched inventory data; and

one or more reservation inventory records corresponding to instance data of the matched inventory data;

~~processing concurrently, on the computing device, the multiple requests for reservation using the reservation transaction records, reservation items records, and reservation inventory records by adding records in a hold table to contain the inventory item data taken from the one or more reservation inventory records so as to temporarily remove from inventory without being reserved hence avoiding reservation of a same instance of the specific inventory item in accordance with the user request for reservation of one or more inventory items; and~~

transmitting, by the computing device, results of the processing of the reservation transaction records, reservation items records, and reservation inventory records, which results are presented on a display.

2. (Original) The method as recited in Claim 1, wherein the user request for reservation includes a set of criteria for identifying matching inventory items.

3. (Original) The method as recited in Claim 2, wherein the set of criteria includes a date or date range for the reservation request.

4. (Original) The method as recited in Claim 2, wherein the set of criteria includes the selection of a hotel room or hotel room type.

5. (Original) The method as recited in Claim 2, wherein the set of criteria includes a selection of an airline flight or airline carrier.

6. (Original) The method as recited in Claim 2, wherein the set of criteria includes a selection of car rental agency or car rental type.

7. (Original) The method as recited in Claim 2, wherein the set of criteria includes the selection of a cruise or cabin type.

8. (Previously presented) The method as recited in Claim 1, wherein the inventory data corresponding to one or more inventory items is represented by at least a reservation items record and inventory record, and wherein obtaining inventory data includes obtaining at least a reservation items record and inventory record matching the reservation request.

9. (Previously presented) The method as recited in Claim 8, wherein obtaining inventory data includes obtaining a number of reservation items record and inventory records matching the reservation request.

10. (Previously presented) The method as recited in Claim 8, wherein the inventory data corresponding to the one or more inventory items is further represented by a group record.

11. (Original) The method as recited in Claim 1, wherein processing the reservation transaction, reservation items, and reservation inventory records includes calculating a consumer price for the reservation transaction, reservation items, and reservation inventory records.

12. (Original) The method as recited in Claim 1, wherein processing the reservation transaction, reservation items, and reservation inventory records includes calculating a supplier cost for the reservation transaction, reservation items, and reservation inventory records.

13. (Original) The method as recited in Claim 1, wherein processing the reservation transaction, reservation items, and reservation inventory records includes confirming a completion of a financial transaction corresponding to the reservation request.

14. (Original) The method as recited in Claim 1, wherein processing the reservation transaction, reservation items, and reservation inventory records include:

placing the inventory data matching the user reservation request on hold;

confirming a completion of a financial transaction corresponding to the reservation request;

updating the reservation transaction, reservation items and reservation inventory records with the confirmation data; and

updating the inventory data to reflect a completed reservation request.

15. (Original) The method as recited in Claim 14, wherein placing the inventory data matching the user reservation request on hold includes placing the inventory data in a hold table.

16. (Original) The method as recited in Claim 15, wherein updating the inventory data includes deleting the inventory data from the hold table.

17. (Previously presented) The method as recited in Claim 14 further comprising deleting the reservation transaction, reservation items, and reservation inventory records and adding the matching inventory data to a corresponding inventory record if the transfer of a monetary amount cannot be confirmed.

18. (Original) The method as recited in Claim 1, wherein transmitting the results of the processing includes transmitting a notification to a supplier corresponding to the process reservation request.

19. (Original) The method as recited in Claim 18, wherein the notification includes a confirmation number.

20. (Original) The method as recited in Claim 18, wherein the notification includes utilization information.

21. (Original) The method as recited in Claim 18, wherein the notification includes a cost code associated with a supplier cost for the inventory item.

22. (Original) The method as recited in Claim 18, wherein transmitting the results of the reservation requests includes transmitting a confirmation to a user corresponding to the process reservation request.

23. (Previously presented) The method as recited in Claim 18 further comprising obtaining a supplier confirmation of the transmitted notification prior to transmitting the confirmation to the user.

24. (Original) The method as recited in Claim 1, wherein the inventory items are travel-based goods and services and wherein the reservation request is a travel-based reservation request.

25-26. (Canceled)

27. (Currently amended) A system for processing reservation of one or more inventory items, the system comprising:

~~multiple client computers configured at least one client computer operable to generate multiple requests~~ a request for reservation of at least one inventory item; and

a travel server configured to store inventory data corresponding to the at least one inventory item, the travel server configured to obtain ~~the multiple requests for reservation~~ the reservation request from the client computer;

~~wherein the travel server generates and processes concurrently the multiple requests for reservation using at least three levels of hierarchical data by adding records in a hold table to contain an inventory item data taken from one or more reservation inventory records so as to so as to temporarily remove from inventory without being reserved hence avoiding reservation of a same instance of the at least one inventory item, the at least three levels of hierarchical data including a reservation transaction record defining a first level of detail of the hierarchical data and associated with the multiple requests for reservation, one or more reservation items records defining a second level of detail of the hierarchical data corresponding to the reservation transaction record and identifying the at least one inventory item, and one or more reservation inventory records defining a third level of detail of the hierarchical data, each reservation inventory record corresponding to the at least one inventory item and including the at least one inventory item data associated with the at least one inventory item~~

wherein the travel server obtains and processes reservation information corresponding to the client computer request for reservation of at least one inventory item, wherein the reservation information is characterized in accordance with a multi-tiered hierarchical relationship defined by:

reservation transaction records including data associated with one or more reservation request;

reservation item records based on reservation transaction records and identifying a set of inventory items associated with the specific inventory request, wherein the reservation item records do not correspond to an instance of an inventory item; and

one or more reservation inventory records based on reservation item records and defining instance data associated with inventory items matched with the one or more reservation requests;  
wherein the reservation information corresponding to the matched inventory data includes:

a reservation transaction record corresponding to user request for reservation;

one or more reservation item records based on the reservation transaction record and the matched inventory data; and

one or more reservation inventory records corresponding to instance data of the matched inventory data.

28. (Previously presented) The system as recited in Claim 27, wherein the inventory data corresponding to one or more inventory items is represented by at least a reservation items record and inventory record.

29. (Original) The system as recited in Claim 27, wherein the travel server processes the reservation transaction, reservation items, and reservation inventory records by confirming the completion of a financial transaction.

30. (Original) The system as recited in Claim 29 further comprising at least one supplier corresponding to the one or more inventory items, wherein the travel server is operable to transmit a notification of the processed reservation transaction, reservation items, and reservation inventory records to the supplier associated with the process reservation request.

31. (Original) The system as recited in Claim 30, wherein the notification includes one or more cost codes operable to define a supplier cost authorization code for the processed reservation transaction, reservation items, and reservation inventory records.

32. (Original) The system as recited in Claim 30, wherein the travel server is further operable to transmit a confirmation of the processed reservation request to the user associated with the process reservation request.

33. (Original) The system as recited in Claim 30, wherein the travel server includes a communication component operable to obtain a standard formatted notification to a supplier and to generate and transmit a supplier specified formatted notification.

34. (Original) The system as recited in Claim 27, wherein the reservation transaction, reservation items, and reservation inventory records include a price component, and wherein the travel server is operable to calculate a price based on the sum of the price components of the reservation transaction, reservation items, and reservation inventory records.

35. (Original) The system as recited in Claim 27, wherein the reservation transaction, reservation items, and reservation inventory records include a cost component, and wherein the travel server is operable to calculate a cost based on the sum of the cost components of the reservation transaction, reservation items, and reservation inventory records.

36. (Original) The system as recited in Claim 27, wherein the inventory items correspond to travel-based goods and services, and wherein the reservation request is a travel-based reservation request.

37. (Original) The system as recited in Claim 27, wherein the travel server is further operable to obtain a reservation cancellation request from the client computer and to process pre-existing reservation transaction, reservation items, and reservation inventory records in accordance with the reservation cancellation request.

38. (Original) The system as recited in Claim 37, wherein the processing of the pre-existing reservation transaction, reservation items, and reservation inventory records include updating the inventory data corresponding to the cancelled reservation request.

39. (Original) The system as recited in Claim 27, wherein the travel server is further operable to obtain a reservation modification request from the client computer and process pre-existing reservation transaction, reservation items, and reservation inventory records in accordance with the reservation modification request.

40. (Original) The system as recited in Claim 39, wherein the travel server is further operable to generate additional reservation items records in accordance with the reservation modification request.

41. (Original) The system as recited in Claim 39, wherein the travel server is further operable to generate additional reservation inventory records in accordance with the reservation modification request.

42. Cancel.

43. (Currently amended) The computer-readable medium as recited in Claim [[42]] 64 further comprising a price component associated with the reservation transaction component, the one or more reservation items components, and the one or more reservation inventory components, the price component operable to define a price adjustment associated with each component.

44. (Currently amended) The computer-readable medium as recited in Claim [[42]] 64 further comprising a reservation traveler component operable to define one or more user preferences associated with the reservation request.

45. (Currently amended) The computer-readable medium as recited in Claim [[42]] 64, wherein the inventory items correspond to travel-based goods and services and wherein the reservation request is a travel based reservation request.

46. (Original) The computer-readable medium as recited in Claim 45, wherein at least one reservation inventory component corresponds to a hotel room.

47. (Original) The computer-readable medium as recited in Claim 45, wherein at least one reservation inventory component corresponds to an airline seat.

48. (Original) The computer-readable medium as recited in Claim 45, wherein at least one reservation inventory component corresponds to a room on a cruise ship or cabin type.

49. (Original) The computer-readable medium as recited in Claim 45, wherein at least one reservation inventory component corresponds to car rental type.

50. (Currently amended) A method for processing reservation requests for one or more inventory items, the method comprising:

obtaining by a computing device, multiple requests for a reservation action corresponding to at least one inventory item;

obtaining, by the computing device, ~~three levels of detail organized in a hierarchical relationship defined by pre-existing reservation transaction records, reservation items records, and reservation inventory records corresponding to the inventory item~~ reservation information corresponding to each of the multiple requests;  
wherein the reservation information is characterized in accordance with a multi-tiered hierarchical relationship defined by:



~~wherein the reservation transaction record defines records define a first level of detail in the hierarchical relationship associated with one or more reservation requests;~~

~~wherein one or more reservation items records define a second level of detail in the hierarchical relationship, including date information associated with the reservation items, that corresponds to the reservation transaction records and identifies the at least one inventory item associated with the specific reservation request, and;~~

~~wherein one or more reservation inventory records define a third level of detail in the hierarchical relationship, wherein each reservation inventory record identifies an instance of the at least one inventory item~~

~~reservation transaction records including data associated with one or more reservation request;~~

~~reservation item records based on reservation transaction records and identifying a set of inventory items associated with the specific inventory request, wherein the reservation item records do not correspond to an instance of an inventory item; and~~

~~one or more reservation inventory records based on reservation item records and defining instance data associated with inventory items matched with the one or more reservation requests;~~

~~wherein, for each of the multiple requests, the reservation information includes:~~

~~a reservation transaction record corresponding to user request for reservation;~~

~~one or more reservation item records based on the reservation transaction record and the matched inventory data; and~~

~~one or more reservation inventory records corresponding to instance data of the matched inventory data;~~

processing concurrently, on the computing device, the multiple requests for reservation using the reservation transaction records, reservation items records, and reservation inventory records ~~by adding records in a hold table to contain at least one~~

~~inventory item data taken from the one or more reservation inventory records so as to temporarily remove from inventory without being reserved hence avoiding reservation of a same instance of the at least one inventory item; and~~

transmitting results of the processing of the reservation transaction records, reservation items records, and reservation inventory records.

51. (Original) The method as recited in Claim 50, wherein the reservation action request is a reservation cancellation request, and wherein processing reservation transaction, reservation items, and reservation inventory records according to the reservation action request includes:

placing inventory item information corresponding to the reservation transaction, reservation items, and reservation inventory records on hold;

updating the reservation transaction, reservation items, and reservation inventory records; confirming the completion of a financial transaction corresponding to the cancellation request; and

if the financial transaction is confirmed, updating an inventory item store with the inventory item information on hold.

52. (Original) The method as recited in Claim 51 further comprising updating inventory item utilization information in accordance with the cancellation request.

53. (Original) The method as recited in Claim 51, wherein placing the inventory item information on hold includes placing the inventory item information in a hold table.

54. (Original) The method as recited in Claim 53, wherein updating the inventory item store includes deleting the inventory item information in the hold table.

55. (Original) The method as recited in Claim 51 further comprising rolling back the reservation transaction, reservation items, and reservation inventory records if the financial transaction cannot be confirmed.

56. (Original) The method as recited in Claim 50, wherein the reservation action request is a reservation modification request, and wherein processing reservation transaction, reservation items, and reservation inventory records according to the reservation action request includes:

generating new reservation transaction, reservation items, or reservation inventory records corresponding to a new reservation portion of the modification request;

placing inventory item information corresponding to the new reservation transaction, reservation items, or reservation inventory records on hold;

placing inventory item information corresponding to the pre-existing reservation transaction, reservation items, and reservation inventory records on hold;

updating the pre-existing reservation transaction, reservation items, and reservation inventory records;

confirming the completion of a financial transaction corresponding to the cancellation request; and

if the financial transaction is confirmed, updating an inventory item store with the inventory item information on hold.

57. (Original) The method as recited in Claim 56 further comprising updating inventory item utilization information in accordance with the modification request.

58. (Original) The method as recited in Claim 56, wherein placing the inventory item information on hold includes placing the inventory item information in a hold table.

59. (Original) The method as recited in Claim 58, wherein updating the inventory item store includes deleting the inventory item information in the hold table.

60. (Original) The method as recited in Claim 56 further comprising rolling back the pre-existing reservation transaction, reservation items, and reservation inventory records if the financial transaction cannot be confirmed.

61. (Original) The method as recited in Claim 60 further comprising updating inventory item utilization information in accordance with the modification request.

62-63. (Canceled)

64. (New) A computer-readable medium having computer-executable components for processing reservation of one or more inventory items, comprising:

a reservation transaction component operable to obtain reservation information based on processing user reservation requests for inventory items;

a data store for storing the reservation information, wherein the reservation information is organized in accordance with a three-tiered hierarchical relationship defined by:

- reservation transaction components including data associated with one or more reservation requests,

- reservation items components corresponding to reservation transaction records and identifying a set of inventory items associated with the specific reservation request, and

- one or more reservation inventory components corresponding to reservation items records and defining instance data associated with reservation requests for inventory items identified in the inventory reservation items records; and

wherein the reservation information includes:

- a reservation transaction component corresponding to the user reservation request,

- one or more reservation items components corresponding to inventory items identified in the matched inventory data, and

- one or more reservation inventory components corresponding to instance data of the inventory items identified in the reservation inventory records.